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Fossil vesicomyid bivalves from Miocene hydrocarbon seep sites, North Island, New Zealand

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Two fossil species of vesicomyids are described from Lower to Middle Miocene hydrocarbon seep carbonates in eastern North Island, New Zealand. One elongate species is proposed as a new genus and species: *Notocalyptogena neozelandica*. The other species probably belongs to the genus *Pliocardia*, but due to poor preservation is not identified further. The composition of this Miocene vesicomyid seep fauna differs from that found in modern New Zealand seeps located on the offshore Hikurangi convergent margin, which contain the genera *Calyptogena*, *Archivesica*, and *Isorropodon*. The fossil fauna went extinct locally after the Middle Miocene and has been since replaced by the modern vesicomyid taxa.

Key words: Mollusca, Bivalvia, Vesicomyidae, hydrocarbon seep, Miocene, New Zealand.

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